

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006 and 453/2010

### 16.05 Silica Gel Desiccant Cartridge

Print date: 11/16/2010

Product code: 5188906

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#### 1. Identification of the substance/preparation and of the company/undertaking

##### Identification of the substance or preparation

51889-06 Silica Gel Desiccant Cartridge

##### Use of the substance/preparation

Water analysis

##### Company/undertaking identification

Company name: Paul Gothe GmbH  
Street: Wittener Str. 82  
Place: D-44789 Bochum  
Telephone: +49 (0)234 33 51 80  
e-mail: info@paulgothe.de  
Internet: www.paulgothe.com  
Responsible Department: Paul Gothe GmbH  
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Wittenerb Str. 82  
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#### 2. Hazards identification

##### Classification

Indications of danger : Toxic  
R-phrases:  
May cause cancer by inhalation.

#### 3. Composition/information on ingredients

##### Chemical characterization ( Mixture )

##### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-545-4	7631-86-9	Silica gel	> 99,0 %	
231-589-4	7791-13-1	Cobalt(II) chlorid hexahydrate	0,1-1,0 %	T, N R49-22-42/43-50-53

Full text of each relevant R phrase can be found in heading 16.

#### 4. First aid measures

##### General information

Take off all contaminated clothing immediately.

##### After inhalation

Move to fresh air.

##### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

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#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Show this safety data sheet to the doctor in attendance.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Advice to doctor

Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

#### Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

#### Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. Accidental release measures

#### Personal precautions

Use personal protective equipment.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up/taking up

Soak up with inert absorbent material and dispose of as hazardous waste.

#### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 7. Handling and storage

### Handling

#### Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust.

### Storage

#### Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place.

#### Further information on storage conditions

Accessible only for authorized persons.

## 8. Exposure controls/personal protection

### Exposure limit values

### Exposure controls

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#### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

#### Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0.40 mm, Breakthrough time: > 30 min

#### Eye protection

Safety glasses with side-shields

#### Skin protection

Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

### General information

Physical state: granules  
Colour: white/ blue  
Odour: odourless

### Important health, safety and environmental information

	Test method
pH-Value (at 20 °C):	2,3 - 7,4
<b>Changes in the physical state</b>	
Melting point:	1710 °C
Boiling point:	2230 °C
Flash point:	not applicable
<b>Flammability</b>	
Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
Density (at 20 °C):	2,2-2,6 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	insoluble

### Other information

no data available

## 10. Stability and reactivity

#### Conditions to avoid

Stable under recommended storage conditions.

#### Materials to avoid

Oxidizing agents

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#### 11. Toxicological information

##### Acute toxicity

No data is available on the product itself.

##### Corrosive and irritant effects

-

##### Sensitising effects

-

##### Carcinogenic/mutagenic/toxic effects for reproduction

Known carcinogen.

#### 12. Ecological information

##### Ecotoxicity

May cause long-term adverse effects in the aquatic environment.

Do not flush into surface water or sanitary sewer system.

#### 13. Disposal considerations

##### Advice on disposal

In accordance with local and national regulations.

##### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

##### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

##### Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

#### 14. Transport information

##### Land transport (ADR/RID)

##### Other applicable information (land transport)

Not subject to transport regulations.

##### Inland waterways transport

##### Other applicable information (inland waterways transport)

Not tested

##### Marine transport

##### Other applicable information (marine transport)

Not subject to transport regulations.

##### Air transport

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#### Other applicable information (air transport)

Not subject to transport regulations.

### 15. Regulatory information

#### Labelling

Danger symbols: T - Toxic



T - Toxic

#### Hazardous components which must be listed on the label

Cobalt(II) chlorid hexahydrate

#### R phrases

49 May cause cancer by inhalation.

#### S phrases

22 Do not breathe dust.

#### Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

### 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

- 22 Harmful if swallowed.
- 42/43 May cause sensitization by inhalation and skin contact.
- 49 May cause cancer by inhalation.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

#### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*